My Undergraduate Summer Research Award Experience

Angela Jiang LabTREK 2023 September 16^{th,} 2023

About me:

Hi, my name is Angela Jiang!

- ▶ 2nd year science student (microbiology)
- Undergraduate Researcher for Dr. Sabine Kuss
- ▶ BIOL 1020 Teaching Assistant
- Communications programmer for the Science Students' Association (SSA)
- Undergraduate Summer Research Award Recipient 2023 (URA)



The Laboratory for Bioanalytics and Electrochemical Sensing:



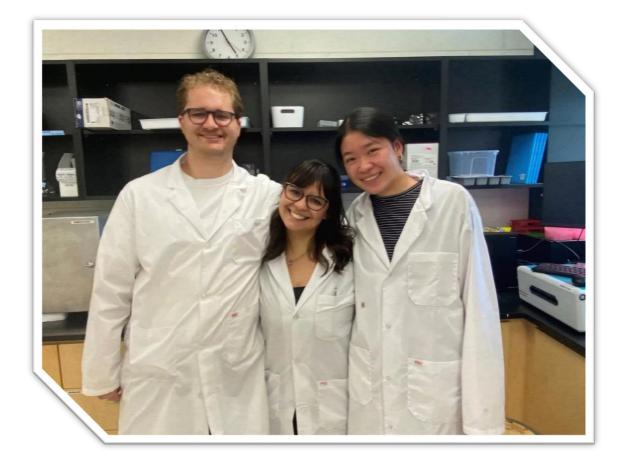
Dr. Sabine Kuss



Summer 2023-Kuss Group Photo

- Led by Dr. Sabine Kuss (Associate Professor, University of Manitoba)
- Lab focuses on using electrochemical techniques to investigate important questions in chemistry, biology and medical research.
- Connect with our research group!
 - Website: www.bioanalyticschemistry.com
 - ► Twitter: @LBES_UofM

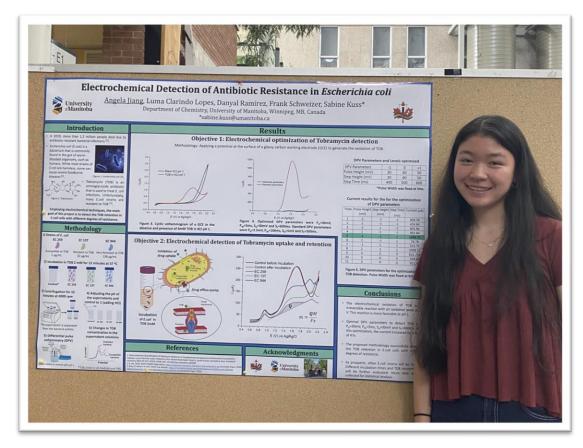
Mentored by Luma Clarindo Lopes (Ph.D candidate, University of Manitoba)



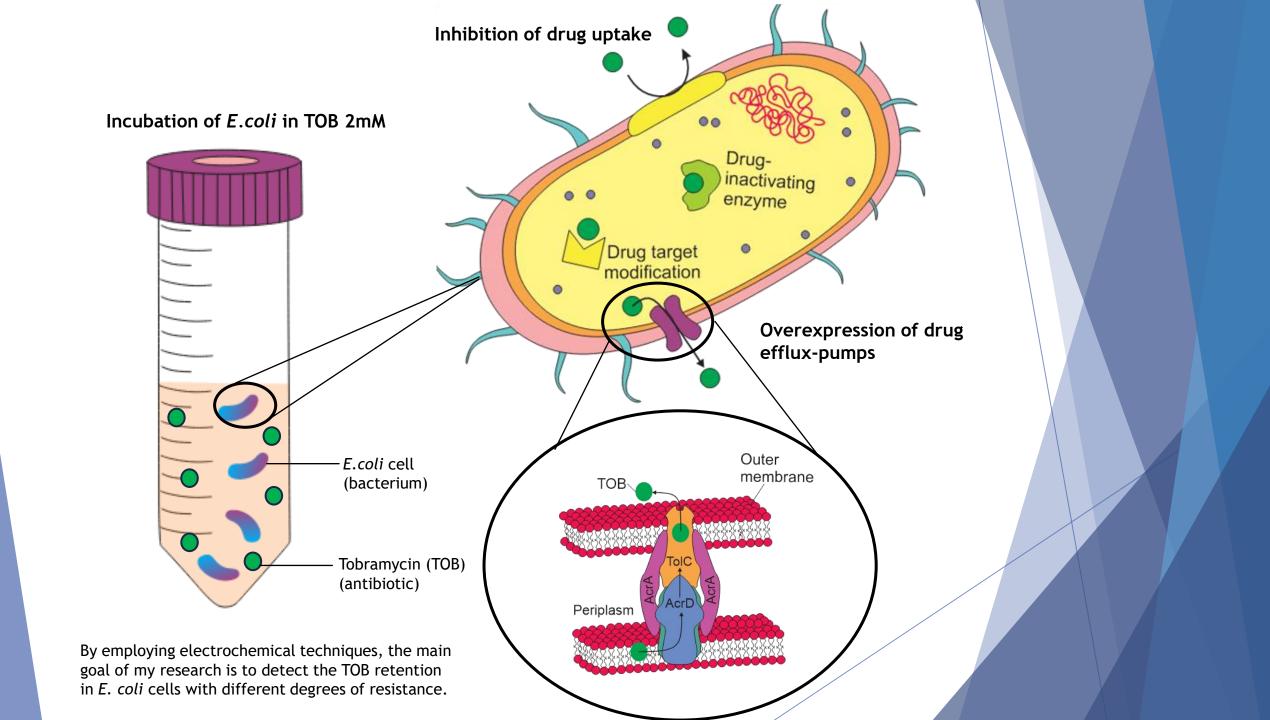
L-R: Kolby Wiebe, Luma Clarindo Lopes, Angela Jiang

My research (still in progress!):

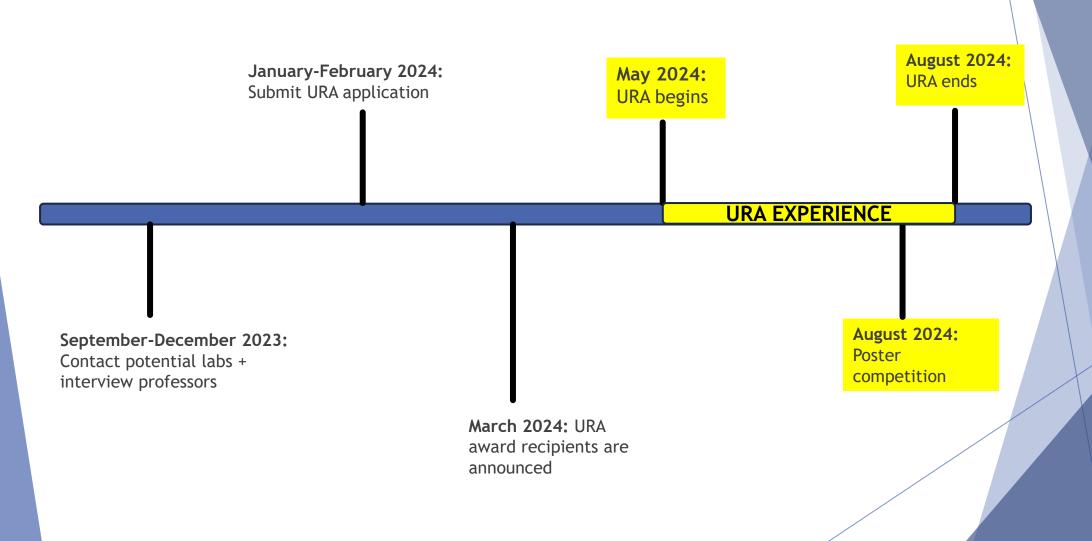
Electrochemical Detection of Antibiotic Resistance in Escherichia coli.



Summer 2023 - URA Poster Competition



URA experience timeline:



Tips for interviewing potential research supervisors:

- When interviewing potential supervisors, some questions you may want to ask include:
 - What would my research project focus on?
 - What does a day in the lab look like? Are the hours flexible?
 - Can I take summer classes while doing a URA?
 - ► How many other students will be working in the lab? Will I be working individually/or in a group?
 - ► How many post-docs and Ph.D students work in the lab?
 - What growth opportunities does this lab offer me?

*The goal is to ask questions that will help you decide if the lab is a good fit for you, your goals, and your other commitments.



Group photo at the 2023 Summer Research Poster Competition



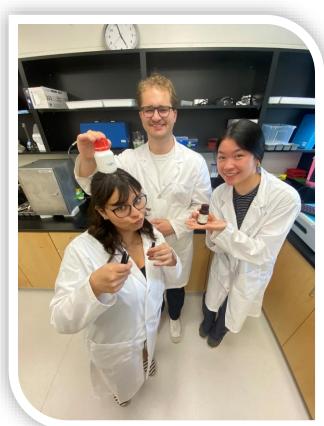
How do you receive a URA?

- Awards are heavily dependent on your GPA (min. 3.0-3.5)
- Contacted 11 professors (U of M, St. Boniface Research)
 - ► Interviewed 4 professors
 - *Some professors at more advanced labs may require prerequisite knowledge or experience!
- ► IF YOU ARE A FIRST-YEAR STUDENT: you will most likely only be eligible for the URA, and not the USRA, NSERC, etc.
 - *Make sure you read the eligibility requirements carefully!



A typical day of summer research:

- > 9:30 am: Arrive at the lab
- ▶ 9:30am-12:00pm: Conduct experiments, treat data, read articles for background information, meet with Dr. Kuss to discuss my progress, etc.
- ► 12:00pm-12:30pm: Lunch (group lunches in the Science Lounge!)
- ► 12:30pm-4:30pm: Finish experiments, other tasks as needed, etc.



^{*}I also took 2 summer classes and worked part-time in retail throughout my URA summer research experience.

Why did I choose to work at Dr. Sabine Kuss' Lab?

Some URA Summer 2023 memories!



Celebrating Yaser's (Ph.D candidate) birthday!



Research team drawn by me!



Celebrating Dr. Kuss' birthday!



End of summer research celebration!

- Interesting project
- Opportunities for growth
- Great mentors and learning environment
- Convenient location
- Flexible hours



Thank you!

Connect with our research group!

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